

Warranty

90 Day Limited Warranty

Sima Products Corporation warrants this product against defects in materials and workmanship for a period of 90 days from the date of purchase. During the warranty period, the product will be repaired or replaced, at Sima's option.

Conditions

1. Ship your unit, freight prepaid, including reasonable proof of purchase and description of problem to:

**Attn: Customer Service
Sima Products
140 Pennsylvania Ave.,
Bldg #5,
Oakmont, PA 15139
(412) 828-3700 or 800-345-7462**

This warranty is void if any defects are caused by abuse, misuse, negligence or unauthorized repairs.

4. All liability for incidental or consequential damages is specifically excluded. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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sima[®]
140 Pennsylvania Ave.
Bldg. #5
Oakmont, PA 15139
1-800-345-7462
Simple, Fun, Affordable

Model SUR-25

Touch Screen Universal Remote Control



User's Manual

sima[®]

Preface

About this manual

This manual is designed to make using the SUR-25 Touch Screen Remote Control as easy as possible. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice.

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PN 21663

Problem	Solution
IR LEARNING cannot be made successfully.	Replace batteries in the SUR-25 and the remote you are trying to learn from. Keep distance between remotes to about 2~4 inches. Do not learn near an incandescent lamp. Memory capacity is full (56 keys for each of 10 models). The learning process has no errors, but you still can't control your AV devices: repeat the learning procedure again. If you still can't solve the problem, use the code collection feature and email codes to Sima. (page 38)
	Original remote might not be compatible with learning procedure.
Macro does not work.	Be sure to aim the SUR-25 at the devices while the macro commands are being sent. Macro was not properly set up. Repeat macro set-up procedure. (page 47)
A button of your existing remote performs two or more functions	Some remotes issue multiple commands when a button is held down. Please be sure to teach different buttons of SUR-25 for these different commands. Each button of SUR-25 can only learn one command.
The LCD screen turns off.	The SUR-25 is preset automatically to switch the LCD off after the PowerDown time. Just tap the LCD screen or any button to turn the SUR-25 back on again. You can also reset the Power Down time period.

Problem	Solution
You see "ERROR" display on the LCD during the learning procedure.	Make sure you hold the other remote's button down for about 2 seconds. Make sure you did not program more than one remote for a given device. Make sure the two remotes are not too close or too far apart and are aiming directly at each other - keep apart between 2~4 inches (5~10cm). The button that you pressed has not been taught.
You see "ERROR" display during operation.	Teach the button using the learning procedure. (page 31) If unit locks up, remove one battery - wait ten seconds - and re-install battery
Your VCR will not record.	As a safety feature on SUR-25, you must press the REC key for 3 seconds.
Problems changing channels.	If your original remote requires the <i>ENTER</i> key to be pressed after a channel is selected, press the <i>ENTER</i> key to select the channel.
Won't go into SETUP mode	Batteries are low. Replace batteries.
Backlight doesn't work	Backlight disabled. See Backlight Time Period (pg. 53)

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Appendix C – Troubleshooting

Problem	Solution
LCD does not show anything when you touch it or press the rubber buttons.	Batteries may be dead. Replace the batteries with 4 new AA Alkaline Batteries. Check that the batteries are properly installed. Make sure switch in battery compartment is set to "NORM"
The SUR-25 doesn't operate a device.	Make sure that the desired device screen on the SUR-25 LCD panel has been selected. Move closer to the device. The maximum operating distance is approximately 30 feet.
	Ensure that you are aiming the SUR-25 directly at the device and that there are no obstructions between the SUR-25 and the device.
	Ensure programming with the learning function or using the manufacturer codes has been properly done.
	If "error" message, try re-teaching button.
	Make sure that you have correctly "taught" your device's remote control to the SUR-25.
You cannot operate a device even after teaching the device using the learning function.	Delete the device data from the SUR-25 and carry out the learning function again. Make sure you did not program more than one remote for a given device.
"Full" message appears.	Device button capacity is full. Delete a device.

Appendix B – Accessories

SUR -25 Link cable kit

The link cable kit is an optional link cable that enables transmission of system setup to a personal computer or another SUR-25. The following information can be transferred using the **TRAN** selection in the **SETUP Menu**:

- MCU Program
- Flash Memory Data

To perform a data transfer you will need to first purchase a link cable. Please see the manual that accompanies the cable for more information on how to do the transfer.

Contact Sima or visit our website at www.simacorp.com for more information concerning the link cable kit.

Chapter 1 - Introducing the SUR-25

Congratulations on your purchase of the SUR-25 Touch-Screen Remote Control. The SUR-25 is a digital universal remote control that is easy to use, enabling you to control all of your electronic devices equipped with an infrared (IR) remote.

The SUR-25 uses a touch screen panel and control buttons and is simple to use. Simply select a device and the appropriate screen appears. You can control up to ten devices, such as VCRs, DVDs, TVs, and satellite dishes. The SUR-25 is easy to set up. You can quickly configure each device in your household or office using the “learning eye”.

In addition, the advanced macro function enables you to initiate a chain of up to 60 commands with the touch of a single button. Convenient and easy to use, the SUR-25 provides you with a central control solution.

Note: This manual will help you learn how to use all the advanced features of the SUR-25. It will not explain how to use the functions for your devices. Please refer to your device’s user manual for information related to your device.

SUR-25 Features

The following list identifies the SUR-25’s key features.

- Large touch screen display.
- Each macro can store a sequence of 60 commands.
- Controls up to ten devices including DVDs, TVs, Satellite dishes VCRs and CDs.
- Learns the IR codes from existing remote controls to quickly set up devices.
- Pre-programmed manufacturer’s codes for many models.
- Programmable buttons for each device include seven rubber buttons, the device key and forty-eight soft buttons.
- Optional PC Interface for connection to a computer.
- Five Quick Channel classifications for easy channel grouping

Unpacking the SUR-25

This package includes:

- 1 SUR-25
- 1 User's Manual (this document)
- 1 Pre-programmed code guide

If any of these items are missing or appear damaged, contact your dealer immediately. Keep the shipping carton in case you need to ship your SUR-25.

Identifying Components

Please refer to the following illustrations to identify the components of the SUR-25.

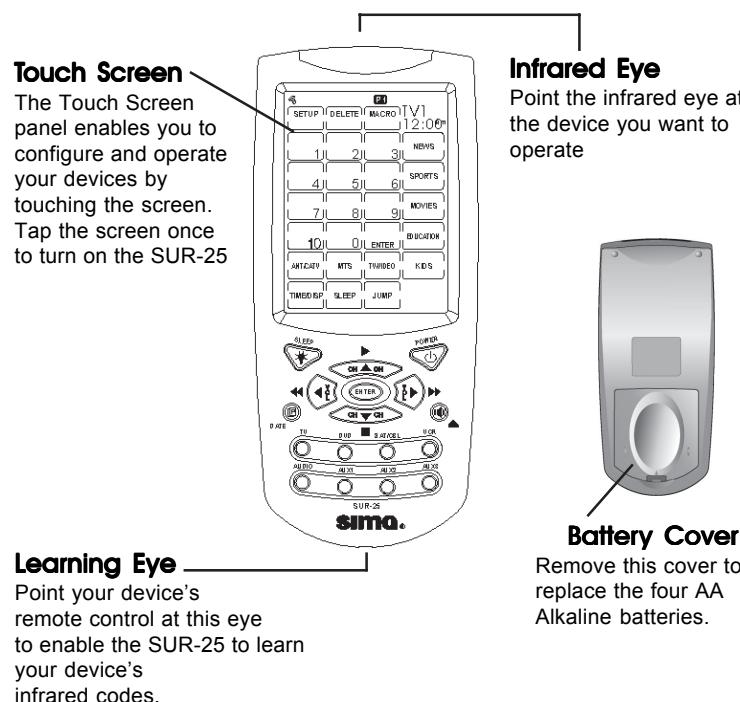


Figure 1: Front and Rear Views

Appendix A – Specifications

Model	SUR-25
Dimensions (WxHxD):	3.2" x 7.3" x 1.2" (8.2cm x 18.5cm x 3.2cm)
Weight (With Batteries):	11.3oz (320g)
Weight (W/out Batteries):	7.8 oz (220g)
Number of Device:	10 devices
LCD Screen (WxH) :	2.7" x 3.2" (6.0cm x 8.0cm)
Soft Buttons	2 pages / 24 keys : total of 48 keys
Hard Buttons:	7 usable
Backlighting:	Green LED (LCD)
Learning Frequency:	10kHz - 125kHz, 455KHZ & Pulse
Memory:	256KB non-volatile flash memory
Batteries:	4 AA Alkaline Batteries
Power consumption:	LCD Off : 50uA LCD On : 200uA Operate : 30 - 100 mA
Battery Life:	Approx. 3 - 6 months
Operating Distance:	Approx. 30 feet
PC Interface:	optional

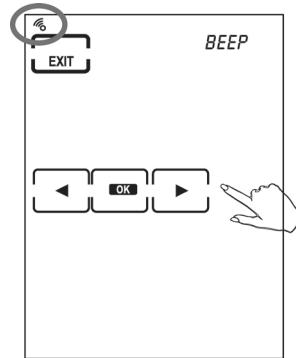
Specifications subject to change without notice.

Beep Toggling

This setting specifies whether you want the SUR-25 to beep each time a button is pressed.

Use the **BEEP** selection in the **SETUP Menu** to change this setting:

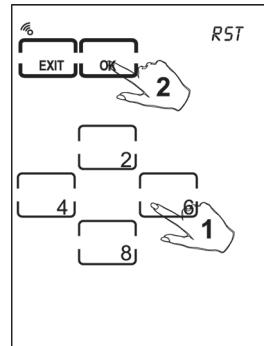
1. Use the **OK** button to toggle the beep from **ON** to **OFF**.



Resetting to Factory Defaults

CAUTION: *This setting will erase all user specified settings and reset the SUR-25 back to factory defaults.*
To reset the SUR-25, use the **RST** selection in the **DELETE Menu**:

1. Press the number keys (2, 4, 6, 8) to confirm RESET selection.
2. Press **OK** to reset the SUR-25.



Chapter 2 - Getting Started

This chapter will give you the information you need to know to use the SUR-25 as your single remote control.

Features Overview

The following illustration highlights the different sections of the SUR-25.

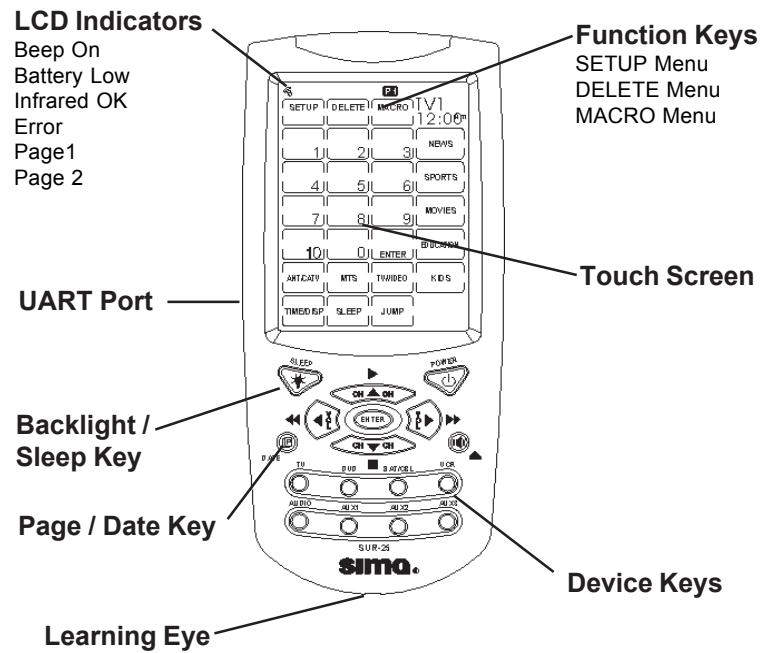


Figure 2: SUR-25 Overview

Features (cont.)

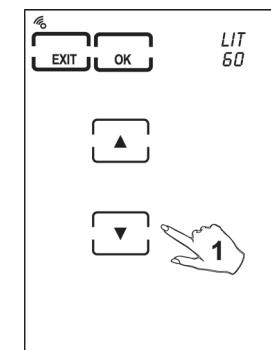
- LCD Indicators:** LCD stands for Liquid Crystal Display and these indicators at the top of the display give you feedback and information. You can look here to see if the beep is turned on, if the battery has low power, if the infrared signal was sent OK or if there was an ERROR, and also to see which page of Touch Screen buttons you are looking at.
- UART Port:** This port allows you to connect the SUR-25 to a personal computer. See Appendix B – Accessories for more information.
- Backlight / Sleep Key:** If pressed quickly, this key will activate the Touch Screen backlight. If held down for three seconds you will enter the Sleep menu.
- Page / Date Key:** This key allows you to switch between Page 1 and Page 2 of Touch Screen Buttons.
- Learning Eye:** This is an infrared sensor used to detect other remote controls infrared signals. Aim your existing remote control here when using the SUR-25's Learning Function.
- Device Buttons:** These 8 buttons allow you to switch between different devices. Each button may have more than one device. (For example, the TV button may have TV1 and TV2 for different TVs in your house.) Repeatedly press the same device button to cycle through all the device names . The SUR-25 has the capability to operate a total of 10 devices maximum.
- Touch Screen:** The touch screen acts as a "virtual" keyboard on the SUR-25. The display is normally blank when the remote is not in use and can be activated by simply touching it.
- Function Keys:** These keys allow you to enter the SETUP, DELETE, and MACRO menus. To enter any function menu, press and hold the appropriate function key for three seconds.

Backlight Time Period

This setting specifies how long the SUR-25 will keep the backlight on after the user presses the BACKLIGHT button. This setting can be changed from 1 second to 60 seconds by using the **LITE** selection of the **SETUP Menu**:

To enter the SETUP menu press SETUP button for three seconds. Complete the password protection sequence 2...4...6...8.... Use the arrow buttons to select the LITE menu.

1. Use the arrow keys to set the backlight period. **If using software version 1.11**, set the time period from 05 to 60 seconds. **If using software version 1.12 and higher**, set the time period from 02 to 60 seconds. To determine version number, see page 51. With either software version you can disable the backlight by setting the time to 0. Press **OK** when finished and **EXIT** to return to the **SETUP Menu**.



Chapter 7 – Changing SUR-25 Parameters

Many of the SUR-25 parameters can be changed. This chapter explains the different customizations you can make.

Power Down Time Period

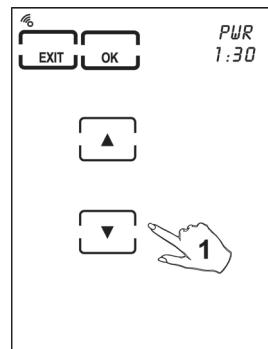
This setting specifies the time delay the SUR-25 will wait until it automatically shuts down. (The touch screen will go blank to conserve battery usage.)

This setting can be changed from 1 to 90 minutes.

1. Press and hold the SETUP button for three seconds.

2. Use the up and down arrows to select PWDN

3. Use the up/down arrows to select a time period ranging from 1 to 90 minutes. Press OK to return to the SETUP menu. Press EXIT to return to the main menu. The unit will power down when the time period expires



Installing Batteries

The SUR-25 operates on four AA Alkaline batteries (not included). Batteries must be inserted before you can operate the SUR-25. To insert the batteries, refer to the following illustration:

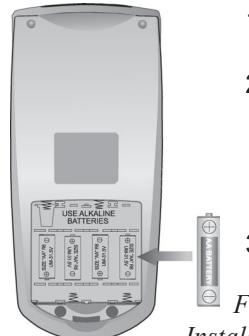


Figure 3:
Installing Batteries

1. Turn the remote over, push on the tab and lift the cover off.
2. Insert the batteries, matching the batteries to the (+) and (-) marks inside the battery case. **Note: Make sure the data switch located in the battery compartment is set to "NORM".**
3. Snap the battery cover back into place.

Low Battery Indicator

When the batteries are low, the battery low icon will be displayed in the upper left-hand corner just above the SETUP button:

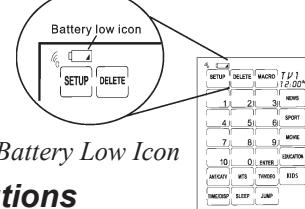


Figure 4: The Battery Low Icon

Battery Tips and Precautions

- Immediately replace batteries when the battery low icon appears.
- The SUR-25 will retain data when batteries are replaced.
- Always use fresh batteries. Alkaline batteries are recommended. Do not mix different types of batteries.
- Be sure that the positive (+) and negative (-) polarities of the batteries match the diagram shown in the compartment.
- Do not expose the batteries to excessive heat or flame.
- Keep batteries out of the reach of children.
- Weak batteries reduce the effective distance of the unit.
- To reduce danger of leakage and damage, remove used batteries when used longer than two years.

Touch Screen

The touch screen reduces the number of buttons by changing its configuration for each device selected. In this way, the touch screen can provide a total of 480 buttons (10 devices x 2 pages x 24 buttons per page).

Turning the Touch Screen On

Using the touch screen is easy. Simply touch the screen or any hard button to activate it. The SUR-25 will turn itself off automatically. (To change the programmable power down time, see *Power Down Time Period in Chapter 7 – Changing SUR-25 Parameters.*)

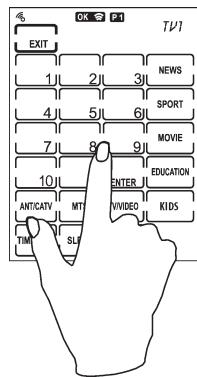


Figure 5: Touch the Screen To Turn It On

Touch Screen Precautions

Please read the following instructions carefully:

- Tap the LCD touch screen gently; never use force.
- Do not use a pen or any sharp object to tap the screen. You might damage the surface.
- Keep the touch screen dry. Wipe off any spills immediately. The SUR-25 is not waterproof; never immerse it in liquid.
- Don't expose the SUR-25 to extreme temperatures. Keep it away from heat sources.
- Avoid dropping the SUR-25.
- Don't drop anything on the touch screen.
- Clean the LCD touch screen with a soft cloth. If needed, dampen the cloth slightly before cleaning. Never use abrasives or cleaning solutions.

Displaying Version Number

For technical support reasons, the Program and Data version numbers might be needed by Sima.

To display the version number, use the **VER** selection in the **SETUP Menu**.

1. **Press and hold the SETUP button on the Touch Screen for 3 sec.** Press each number button (2, 4, 6, 8) until it disappears.
2. **Use the arrow buttons on the Touch Screen to select VER (displayed in the upper right corner)** and then press the OK button.

Press the OK button again. Use arrow buttons to select PROG. The software version number appears under the PROG menu.

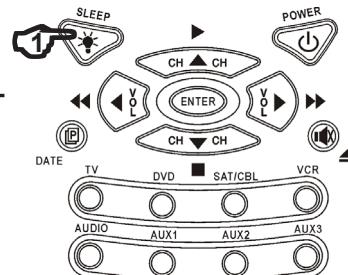
Use the arrows again to select DATA. The data version number appears under the DATA menu.
Press EXIT to exit.

Using Sleep Mode

Sleep mode allows the SUR-25 to send a command or start a Macro after a specified time delay. One example is you could use sleep mode to shut off a TV after you have already fallen asleep.

To use sleep mode:

1. Press and hold the BACKLIGHT (SLEEP) key for three seconds.



2. Use the arrow keys to specify the sleep timeout period in 10 minute increments. (24 hours maximum)

3. Press OK to confirm.

Select the Device using the device keys

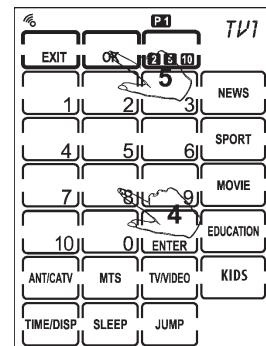
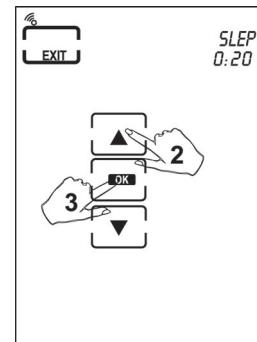
4. Press the button you want the SUR-25 to send after when the sleep timer reaches zero.

Note: This key should already have a command or macro assigned to it. A macro can have up to 60 commands.

5. Press OK when finished.

Note: If you want to cancel the Sleep function:

- Press and hold the BACKLIGHT (SLEEP) key for three seconds.
- Press *Exit* to cancel.



Touch Screen Buttons

The touch screen buttons enable you to operate the SUR-25 and external devices. Use these buttons to program codes from existing remotes, control your devices and set up macro command sequences. You will hear a beep when you press a button. To activate or deactivate the beep, please see *Beep Toggling* in Chapter 7. The SUR-25 will turn itself off after a user specified time period. To change the time period, please see *Power Down Time Period* also in Chapter 7.

Rubber Buttons

The buttons on the bottom part of the SUR-25 allow you to operate devices as well as help program the SUR-25. There are three rubber buttons that have special functions:

Page / Date Button: Toggles between Page 1 and Page 2 of the Touch Screen buttons. If held down, the unit will also display the date and year in the upper right hand corner, followed by the day and the time .



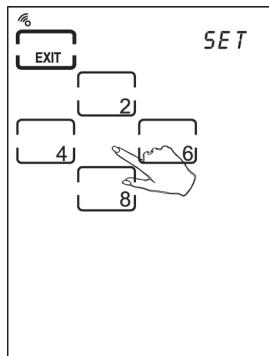
Power Button: Can turn your devices on and off but also during Touch Screen Layout will display all possible LCD choices.



Backlight / Sleep Button: Pressing it quickly will turn on the backlight, while holding it down for three seconds will enter the *SLEEP Menu*.

Menus

In order to use the SETUP, DELETE, and MACRO menus you will first need to press and hold the desired menu button for 3 seconds.



This activates a password protection sequence to prevent accidentally entering a programmable menu .

Figure 6: Confirm Menu Entry by Pressing Numbers

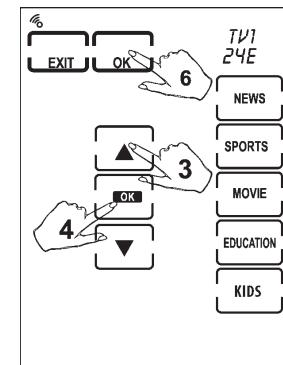
Four numbers will appear which will need to be pressed before the desired menu will appear. This is simply to make sure you meant to enter the menu. You can press the numbers in any order you like and they will vanish when pressed. When all of the numbers have vanished, the desired menu will appear.

3. Press the **UP** and **DOWN** arrows to rotate through the channels currently assigned.

4. Press **OK** to delete a particular channel.

5. Repeat above steps to delete other channels.

6. Press **OK** when finished.



Using Quick Channel Lists

Press the Quick Channel button you wish to use. (It will begin to flash.) Now use the *Channel Up* and *Channel Down* buttons to scroll through all channels in this classification. When finished, press the Channel button again to return to normal operation.

Transmitting System Setup

The SUR-25 allows transmission of system setup to a personal computer or another SUR-25. The following information can be transferred using the **TRAN** selection in the **SETUP Menu**:

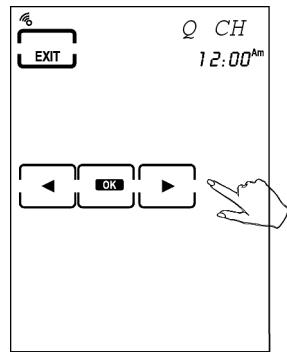
- MCU Program
- Flash Memory Data
- Pre-programmed codes (CODE)

To perform a data transfer you will need to purchase a link cable. Please see the manual that accompanies the cable for more information on how to do the transfer. For more information on the link cable please see *Appendix B – Accessories*.

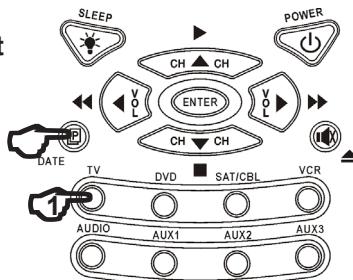
Deleting Channels from a Quick Channel List

Press and hold the **DELETE** button on the Touch Screen.

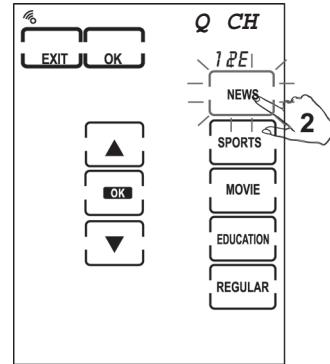
Press each number button (2, 4, 6, 8) until it disappears. Use the arrow buttons on the Touch Screen to select **Q CH** and then press the **OK** button.



1. Use the device keys to select a device and the Page button to select a Touch Screen page.



2. Select the Quick Channel classification you want to delete.
(The selected classification will flash.)



Setup Menu

Menu Item	Description
DATE	Set the system clock and date.
NEW	Create a new device from scratch
CODE	Assign a pre-programmed manufacturer's code to a device.
LABL	Re-name a device
LAY	Change the touch screen layout for a specific device.
LRN	Learn infrared codes from an existing remote control.
PWDN	Set the automatic power-off time period.
LITE	Set the backlight time period.
DBUG	Collect un-learnable IR codes from existing remote controls.
TRAN	Transmit system software or infrared codes from one SUR-25 to another or to a personal computer.
VER	Display the version number.
BEEP	Toggle the key-press beep.

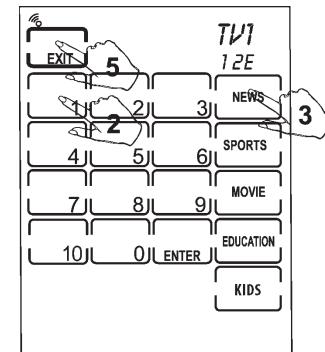
Delete Menu

Menu Item	Description
KEY	Allows you to delete the infrared codes for a specific touch screen or rubber button
BANK	CODE: allows you to delete all infrared codes for a specific device while leaving the touch screen layout the same. ALL: deletes both infrared codes and the touch screen layout for a specific device.
RST	Resets the SUR-25 back to factory settings.
Q CH	Allows you to erase channels that are stored in one of the Quick Channel categories. (NEWS, SPORTS, MOVIE, EDUCATION or KIDS)

2. Use the number keys to enter a channel number.

Some devices may need you to also press *ENTER* (if they normally require you to press *ENTER* after a channel change).

3. Select which Quick Channel classification to put this channel into. (For example press the **NEWS** button.)



4. Repeat Steps 2 & 3 to add additional channels.

5. Press **EXIT** to return to the MACRO menu. Press **EXIT** again to return to the main menu.

Note: The SUR-25 can store up to 50 channels that can be sorted using the five quick channel classifications.

To use the Quick Channel menu, press a Quick Channel button such as NEWS, SPORTS etc.... The selected category will blink when active. Use the Channel up and down hard buttons to cycle through the channels in that category. When switching between categories, the SUR-25 will retain the last channel selected in each category. One minute after the last button press, the unit will return to the main menu.

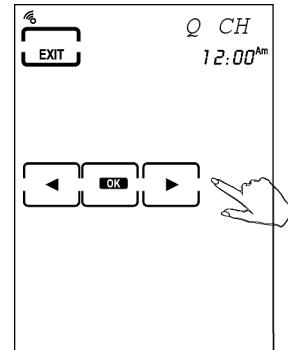
Using Quick Channel Lists

Quick Channel lists allow you to group channels together into different categories for ease of scrolling. You can store up to 50 channels using the five Quick Channel buttons. Each button can store up to 50 channels, however, the unit can only store a total of 50 using all 5 buttons. Available categories include:

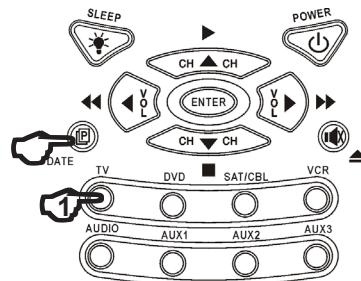
- News
- Sports
- Movies
- Educational
- Kids

Setting up Channel Lists

Press and hold the **MACRO** button on the Touch Screen. Press each number button (2, 4, 6, 8) until it disappears. Use the arrow buttons on the Touch Screen to select **Q CH** and then press the **OK** button.



1. Use the device keys to select a **device** and the **Page** button to select the Touch Screen page containing the number pad.



Macro Menu

Menu Item	Description
KEY	Create a Macro to perform a sequence of actions
TIMR	Start one of the eight timers to perform either a regular action (Weekly, daily etc...) or a delayed action on a specific date.
Q CH	Add channels to a Quick Channel group to make cycling through a particular type of television programming easier. (Example: NEWS, SPORTS, MOVIE etc...)

Chapter 3 – Setting Up the SUR-25

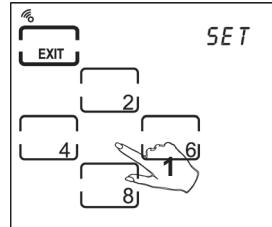
Before the SUR-25 can be used to control a device, it needs to be configured to display your existing remote control buttons and also programmed to send the correct infrared signals. This chapter guides you through the Touch Screen layout and SUR-25 setup procedure.

To get started, you will first set the date and time. Then you can proceed to create devices and program the SUR-25.

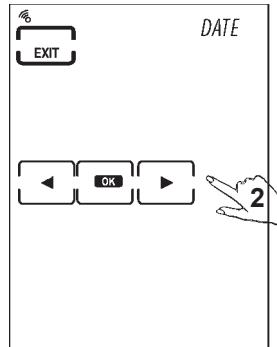
Date and Clock

To use the **Date** selection in the **SETUP Menu**:

1. Press and hold the **SETUP** button on the Touch Screen for 3 sec. Press each number button (2, 4, 6, 8) until it disappears.

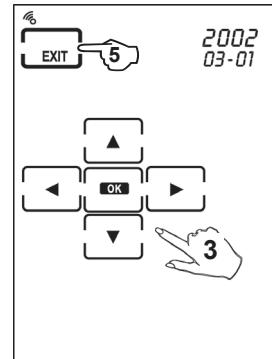


2. Use the arrow buttons on the Touch Screen to select **DATE** (displayed in the upper right corner) and then press the **OK** button.



Enter the year, month and date first.

3. Use the **LEFT** and **RIGHT** arrow keys to move the cursor and the **UP** and **DOWN** arrows to change the selection. Press **OK** when finished.



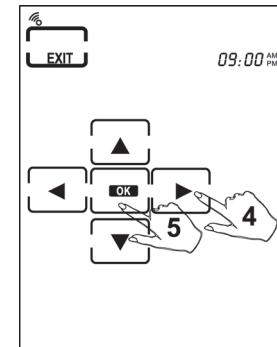
Now set the hour, and minutes.

4. Use the arrow keys as in Step 3.
5. Press **OK** when finished and then **EXIT** to leave the **SETUP** menu.

4. Use the arrow keys to select the time.

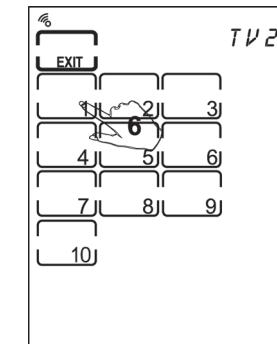
5. Press **OK**

Note: If you used **SPEC** (Specific Day/Time) you will also have to set the date.



6. Select the key that the timer will **press**. If you want, you can switch devices (use device keys) or Touch Screen pages. (Use the **button**.)

At the selected time and date, the SUR-25 will send the infrared code or start the macro associated with the key selected in step 6. When finished press the **EXIT** key to leave the **MACRO Menu**.



Setting Up a New Timer

Press and hold the *MACRO* button on the Touch Screen for 3 seconds.

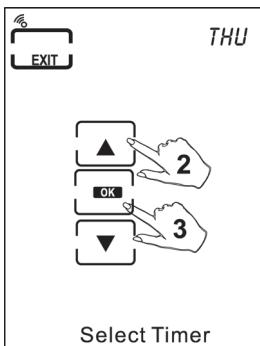
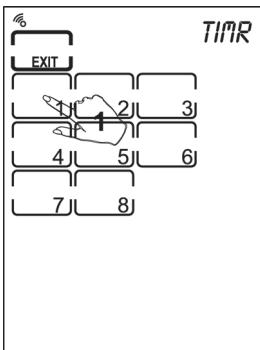
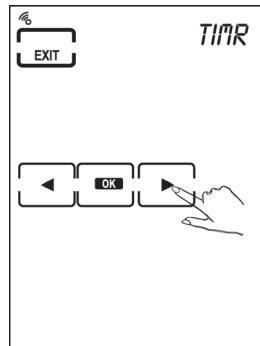
Press each number button (2, 4, 6, 8) until it disappears. Use the arrow buttons on the Touch Screen to select *TIMR* and then press the *OK* button.

1. Choose one of the eight available timers by pressing the number on the Touch Screen.

2. Use the arrow keys to select the timer type.

OFF : Off (no timer)
 DAIL : Daily
 SPEC : Specific Day/Time
 1-5 : Every Mon – Fri
 1-6 : Every Mon – Sat
 SUN : Every Sunday
 MON : Every Monday
 TUE : Every Tuesday
 WED : Every Wednesday
 THU : Every Thursday
 FRI : Every Friday
 SAT : Every Saturday

3. Press *OK* to confirm timer type.



Choosing a Device

Before you can program the SUR-25 to operate your TV, VCR etc... you have to create a device screen for each device to use. Once programmed, devices are selected by pressing one of the eight device buttons located at the bottom of the unit. Keep pressing a button to cycle through the devices available with that button.

Each device button is capable of storing from 0 to 10 devices. For example, you may have two TVs stored in the TV button and three VCRs stored in the VCR button, while having nothing stored in the AUX button. The unit is capable of storing a total of ten devices using any combination of the 8 device buttons.

The display window in the upper right hand corner of the unit shows the name of the device or its "label". If there is no device programmed for that button, it will display "EMPT" meaning empty.

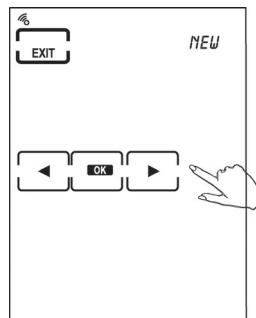
When you create a new device you give it a name or "label". After creating a device, you will be able to enter a pre-programmed code, "teach" an existing remote or customize the control layout to suit your needs. There are two ways to do this based on what starting point you want to work from:

- **Create new Device:** Use this method for setting up a new device.
- **Modify Existing Device:** Use this if you are having a problem with an already setup device and want to make a change or enhancement.

Creating a New Device

To create a new device, follow these steps:

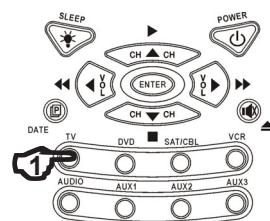
Press and hold the SETUP button on the Touch Screen for 3 sec. Press each number button (2, 4, 6, 8) until it disappears.



Use the arrow buttons on the Touch Screen to select NEW (displayed in the upper right corner) and then press the OK button.

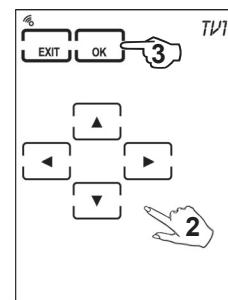
1. Press the device key you wish to use for this device.

The name of the selected device will be displayed in the upper right hand corner of the screen and will be blinking.

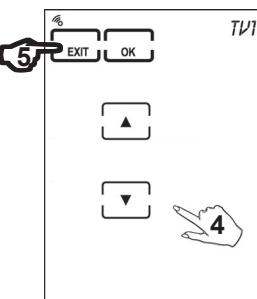


2. After selecting a device, use the arrow keys to change the letters and create your own label for that device.

3. Press the OK button.



4. Now you must select a device default screen. Use the up and down arrows to cycle through the selections. Note: the device screen you select must match the type of device or accessing pre-programmed codes may not be successful. For example, if you are adding a TV, select a TV default screen.



5. Press OK to exit.

Chapter 6 – Other Features

The SUR-25 has the following additional features:

- Timers:** Can be used to start a macro or send a command at a later time. Many timers are available including: daily, weekly, weekends only, weekdays only, or specific days and times.
- Quick Channel Lists:** Used to group certain TV or Satellite channels together. For example, group all news channels together to make it easy to cycle through only the news channels. The five Quick Channel buttons can store a total of 50 channels.
- Unrecognized Code Collection:** Used to collect unrecognized codes that can later be emailed to Sima for analysis.
- System Setup Transmission:** Can be used to transmit system setup to either a personal computer or another SUR-25.
- Sleep Mode:** Can be used to issue a command after a specified time.
- Version:** Will display the version number of your SUR-25.

Using Timers

Timers are fantastic way to automate functions to occur in the future. At a pre-set time, the SUR-25 will “wake up” and send the command or macro of your choice. Combined with a Macro you can use the SUR-25 to record movies, turn on music, act as an alarm clock, or perhaps make your home look and sound like someone is home – even if you’re not.

Note: you can program up to eight timers at one time.

Using Macros

To start a Macro for a specific device, first select the device and then simply press the key assigned to the Macro. If you forget which keys have Macros assigned to them, press the **MACRO** button and all keys with valid Macros will be shown. During the Macro transmission, all commands will be shown on the Touch Screen as they are sent.

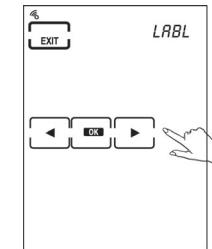
Deleting a Macro

Deleting a Macro is actually simply a matter of deleting the key that the Macro has been assigned to. For example if you assigned a Macro to the **TV1** device's #1 key, you can erase the Macro by deleting the number "1" key in the **TV1** device. For more information on how to delete a specific key please see page 32.

Labeling a Device

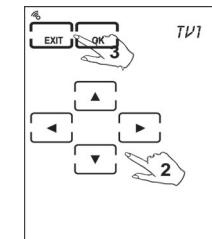
The SUR-25 can store more than one device in each device button. For example, you may use the SUR-25 to operate two televisions sets . To reduce confusion, you can assign names or labels to each device. The label appears in the upper right hand display window.

Step 1 - Press and hold the **SETUP** button on the Touch Screen. Press each number button (2, 4, 6, 8) until it disappears. Use the arrow buttons on the Touch Screen to select **LABL** and then press the **OK** button.



Step 2 - Use the **UP** and **DOWN** arrows to change the letters. Use the **LEFT** and **RIGHT** arrows to position the cursor. (Labels can be 4 digits long.)

Step 3 - Press the **OK** button when finished.



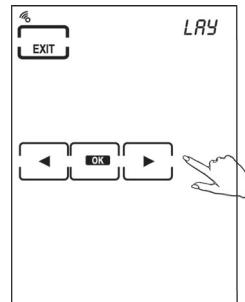
Changing the Touch Screen Layout

The layout edit mode enables you to customize the SUR-25's Touch Screen display to match your existing remote controls. The following steps show you how to make the display on the SUR-25 correspond to an existing remote.

Use the **LAY** selection in the **SETUP Menu**:

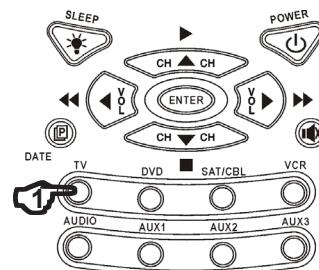
Press and hold the *SETUP* button on the Touch Screen.

Press each number button (2, 4, 6, 8) until it disappears. Use the arrow buttons on the Touch Screen to select **LAY** and then press the **OK** button.

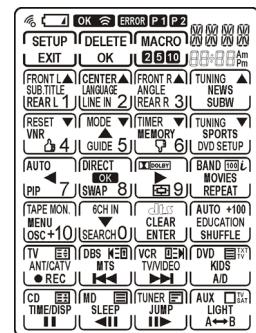


1. Press a device button to select the device you want to modify.

Press the **DATE** button (Page/Date Button) to change to the Touch Screen page you want to modify.



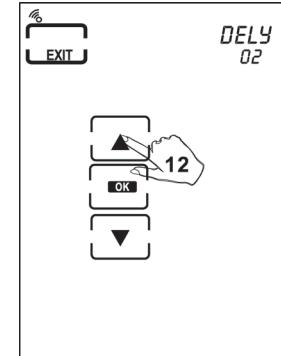
Press the **POWER** button to show all available LCD choices for all buttons.



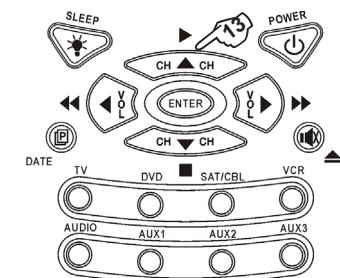
12. Use the **UP** and **DOWN** arrows to select a time delay (in seconds).

Note: You can select a time delay between 1-15 seconds.

Press **OK** to confirm time delay.

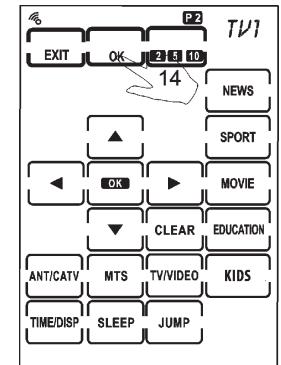


13. Press the **PLAY** button.

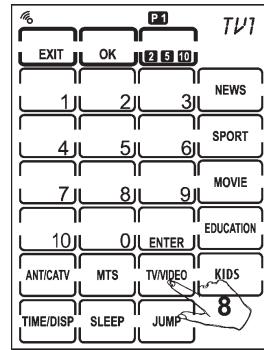


14. Press **OK** to save the Macro.

Then press **EXIT** to leave the **MACRO** menu

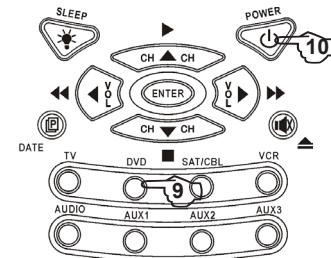


8. Press the *TV/Video* button.

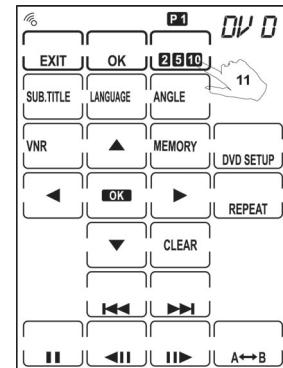


9. Press the *DVD* device button.

10. Press the *POWER* button.

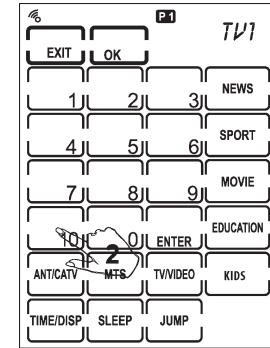


11. Press the *TIME DELAY* button.

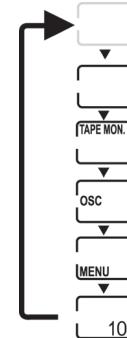


2. Touch the button that you wish to change. It will first go blank

(You may change as many buttons as you wish.)

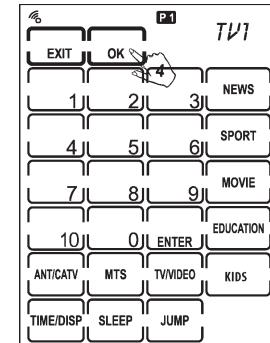


3. Each time you touch the button its appearance will change. If you press another button and then return, the first button will default to a blank setting.



4. Press *OK* to confirm your changes.

Then press *EXIT* to leave the *SETUP Menu*.



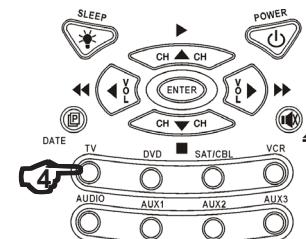
Programming Infrared Codes

There are two methods you can use to program infrared codes into the SUR-25:

- Using Manufacturer Codes:** Use this method to automatically configure all buttons on the SUR-25 for use with a specific manufacturer's model number. This feature is the fastest way to program the SUR-25 but requires that your device be located in the Manufacturer Code Tables . (Some newer or less common devices may not be pre-programmed and must be learned using the Learning Function.)
- Using the Learning Function:** Use this method to directly learn the proper infrared signals from another remote control. The learning eye of the SUR-25 will learn the proper signals to send. This method is perfect for newer or less common devices or if a certain button still not does perform the desired function after using pre-programmed manufacturer codes. However, in rare cases, the SUR-25 may not be able to copy the codes from another remote and it may be necessary to collect unrecognized codes and send them to Sima. (See *Collecting Unrecognized Infrared Codes in Chapter 3.*)

4. Select a device using the device buttons on the SUR-25.

For this example press the **TV** button.

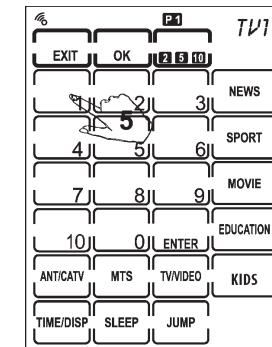


5. On the Touch Screen select one of the buttons to assign the macro to.

You will hear three beeps.

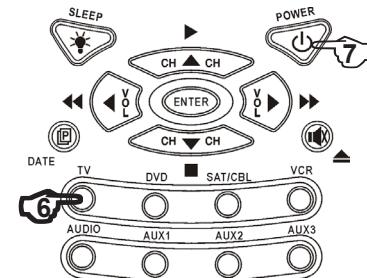
Note: If you select a key that already has a macro assigned to it you will replace the old macro.

Note: You cannot assign a macro to the Quick Channel buttons.



Define Macro

6. Press the **TV** device button.
7. Press the **POWER** button.



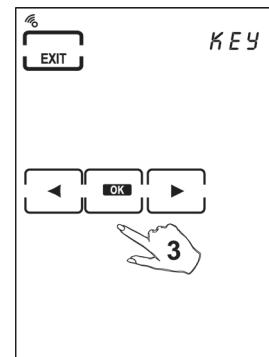
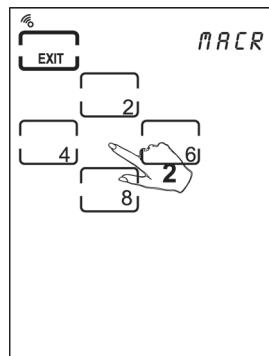
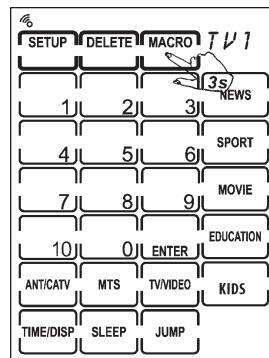
Set up the macro using the following steps:

1. Press and hold the **MACRO** button for three seconds on the Touch Screen.

Note: When you press the **MACRO** button, the screen will display the buttons which currently are programmed with macros. If no buttons are displayed, then no macros have been programmed for that device.

2. Press each number button (2, 4, 6, 8) until it disappears.

3. Use the arrow buttons on the Touch Screen to select **KEY** and then press the **OK** button.



Using Pre-programmed Manufacturer Codes

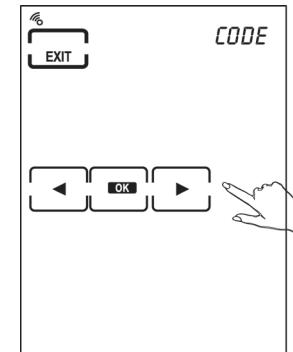
The SUR-25 is pre-programmed with many manufacturers' codes to operate a wide range of TVs, VCRs, DVDs etc... These are useful if you have lost the original remote. However, because of the great variety and number of remotes on the market, not all functions may work when using the pre-programmed codes. If you have the original remote, it is recommended you teach the SUR-25 the functions most important to you. (See *Using the Learning Function*.)

Note: Some codes are designed to operate more than one model. It may take several tries to find the code that works with your unit.

To program a manufacturer's code for a device, follow these steps:

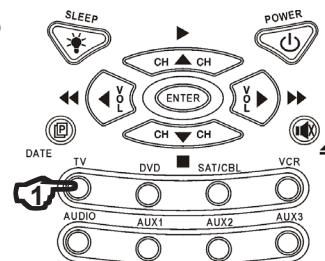
Press and hold the **SETUP button on the Touch Screen for 3 seconds.**

Press each number button (2, 4, 6, 8) until it disappears.
Use the arrow buttons on the Touch Screen to select **CODE** and then press the **OK** button.



1. Use the device buttons to select the device you want to change.

You will see the label changing in the display window in the upper right-hand corner of the screen.



There are two ways to program the manufacturer's codes.

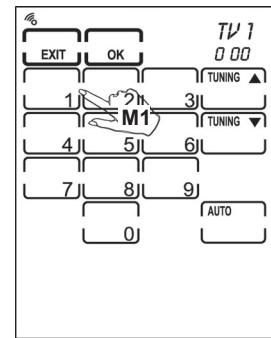
1. **Manual Entry:** Directly enter the code; go to step M1.
2. **Automatic Search:** The SUR-25 will search known codes; skip to step A1.

Before beginning, locate your devices in the Manufacturer Code Tables and have the code numbers handy.

The Code Tables are supplied on a separate sheet or can be found on our website at www.simacorp.com

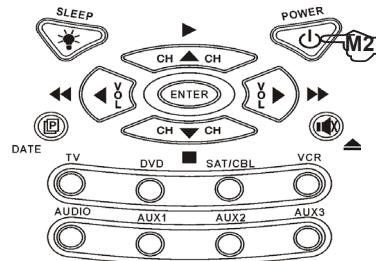
To use manual entry:

M1. Enter the manufacturer's code using the Touch Screen number buttons.



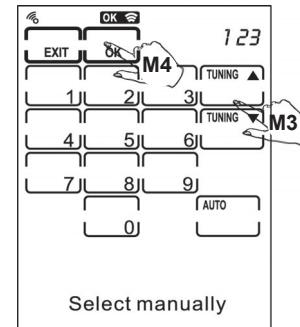
M2. Press the POWER button to test the code.

The device you are trying to control should turn on (or off) as you press this button. If not, return to Step 2 and try another code.



M3. You may also use the TUNING buttons to increase or decrease the code number. Try different codes until one passes the power button test described above.

M4. When finished, press the OK button to return to the Setup Menu.



Chapter 5 – Creating and Using Macros

Introduction to Macros

A macro is simply a series of commands. The MACRO feature enables you to initiate a sequence of up to 60 commands with a single button. You can create a macro on any control button and also insert time delays into the sequence. Remember, however, assigning a macro eliminates the button's original function. You cannot assign a macro to any of the 8 Device keys, the Page/Date key, the Backlight/ Sleep key, the three functions keys (SETUP, DELETE, MACRO), or the five Quick Channel Classification keys.

Creating a Macro Sequence

The following example will help you to better understand the creating a macro sequence. It is provided to teach you how to record a macro but by no means is it the only macro sequence you can create. You can create macros using any sequence of commands you desire.

The following macro will:

1. Turn the TV on.
2. Switch the TV to video mode.
3. Turn the DVD on.
4. Create a two-second delay.
5. Instruct the DVD to play a disc.

Controlling the Device

Make sure the SUR-25 is pointing at the device you are trying to control and simply press the button you want to send:

- Press the Touch Screen buttons.
- Press one of the rubber buttons on the bottom half of the SUR-25's.

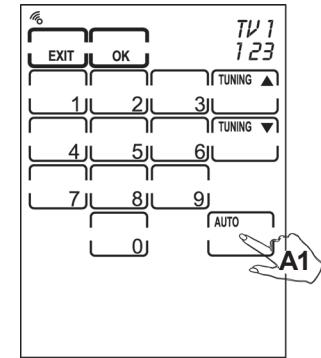
Note - Record Button Must Be Held Down for 3 Seconds:

As a safety feature, the record button needs to be pressed for 3 seconds. This is to prevent accidentally pressing the VCR record button and overwriting a tape.

To use automatic search:

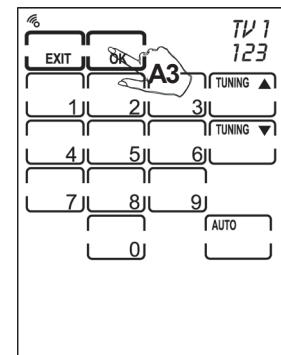
Automatic Search

A1. Make sure the SUR-25 is pointing at the device you want to control and **press the AUTO button**.



A2. The AUTO button will flash while the SUR-25 automatically cycles through the codes. A POWER command is sent with each code. The correct code will turn your TV on if it is off. The code numbers will be displayed in the upper right-hand corner display window. Wait for the device to turn on and then **press the POWER button to stop the automatic search**. The last tried code will be displayed in the upper right hand corner. You can test this code by pressing the POWER button. (You may need to press TUNING Down and try the previous few codes.) The code numbers will continually repeat. If the sequence begins again without turning your device on, it did not find your code. Stop by pressing EXIT if it did not find your code.

A3. Once your device turns on or off when you press the POWER button, **press the OK button to return to the SETUP menu**.



Using the Learning Function

If you have the original remote, the SUR-25 has the ability to directly learn infrared codes.

Before Using the Learning Function

Before you start using the SUR-25's learning function, please heed the following precautions:

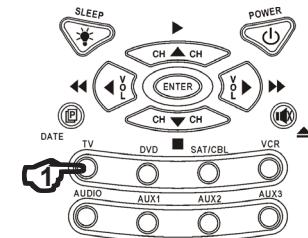
- Teach only one remote for each device . For example, don't assign some of the buttons on the TV device screen to operate a TV in the living room, while assigning others to operate a different model TV in the bedroom. Each device button is capable of storing up to ten separate devices. Create a second device to teach a second TV.
- To change from a device that has already been programmed, delete all of the commands for the first device before teaching new ones. For example, to operate the living room TV instead of the bedroom TV, delete all commands for the bedroom TV first. (*See the Deleting a Device section.*) Then re-configure the TV device screen for the living room TV.
- When using the learning function, you must press each button within 2 minutes of pressing the last button. Otherwise, the SUR-25 will exit the learning mode and return to its normal operation mode.
- **A very small number of infrared codes are not learnable by the SUR-25.** You may need to first collect the codes (see *Collecting Unrecognized Infrared Codes* for more information) and then email them to Sima.

Chapter 4 – Controlling Devices

The SUR-25 is designed to be simple and straightforward to operate. This chapter explains how to use the SUR-25 to control all your devices. This Chapter assumes you have already setup the SUR-25 and assigned Infrared codes to different buttons. See *Chapter 3 – Setting Up the SUR-25 to Control a Device* for more information on assigning codes.

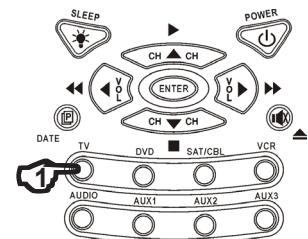
Selecting a Device to Control

1. Press one of the eight device buttons to pick the device. Each device button can store up to ten devices. Press the same device button again to cycle through the different devices in that bank.

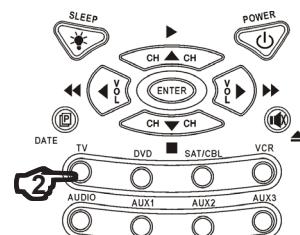


Changing Touch Screen Pages

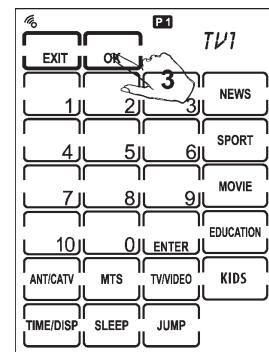
1. Press and release the Page Button to alternate between Page 1 and Page 2 of available Touch Screen buttons.



2. Select the device you wish to delete. Make sure the device name displayed in the upper right hand corner of the touch screen is the device you wish to erase.



3. Press OK to erase this device. Or press EXIT to cancel without erasing the device.



Learning from Another Remote Control

To teach the codes from your remote, set both remotes on a flat surface facing each other. Be sure to point your device's remote control at the SUR-25's learning eye, which is located at the bottom of the unit. Do not use the other eye located at the top of the SUR-25. You do not have to turn on the actual device (TV, VCR, etc...). Refer to the following illustration.

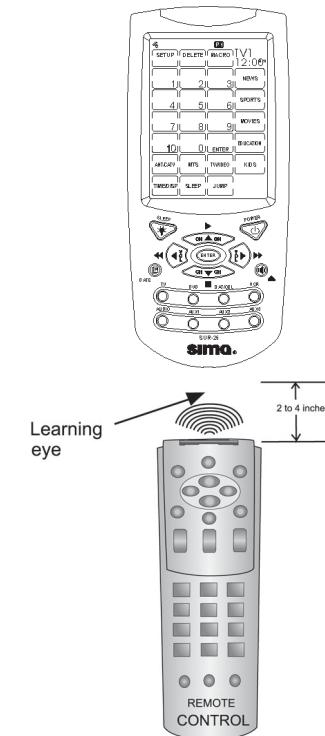
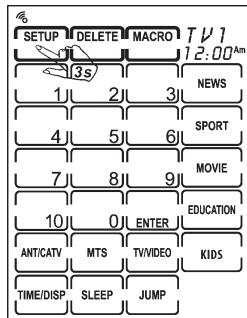


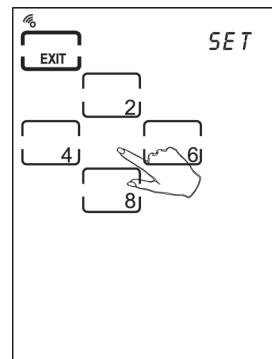
Figure 7: Using the Learning Eye

To learn infrared codes directly from a device's remote control, follow these steps:

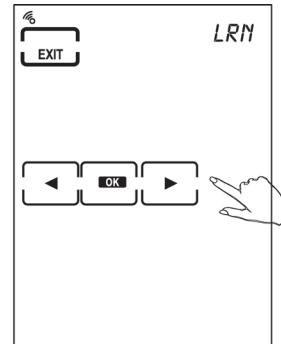
Press and hold the SETUP button on the Touch Screen for 3 seconds.



Press each number button (2, 4, 6, 8) until it disappears.



Use the arrow buttons on the Touch Screen to select **LRN** and then press the OK button.



Deleting a Device

If you have an unused or an unwanted device, you may erase the infrared codes for the device and keep the Touch Screen layout , or you may erase the codes and the Touch Screen layout.

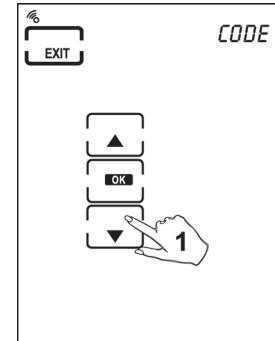
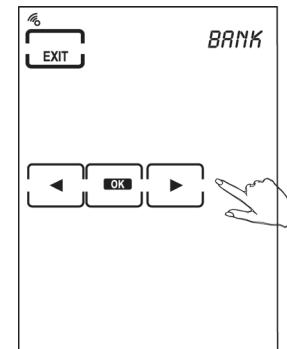
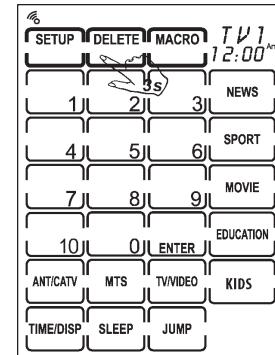
To delete a device from the SUR-25 follow these steps:

Press and hold the DELETE button on the Touch Screen. Press each number button (2, 4, 6, 8) until it disappears. Use the arrow buttons on the Touch Screen to select **BANK** and then press the OK button.

1. Use the Arrow keys to chose CODE: Erase infrared codes only but keep Touch Screen display the same.

or

ALL: Erase both codes and Touch Screen layout.



Deleting a Specific Key

To erase the infrared codes for a specific Touch Screen or Rubber button and retain it in the layout, follow these steps:

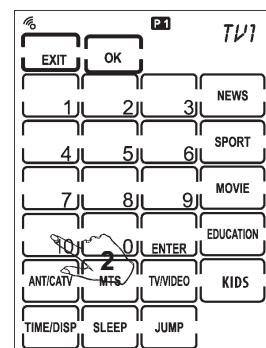
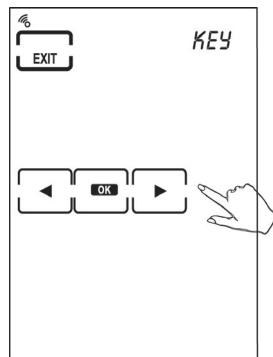
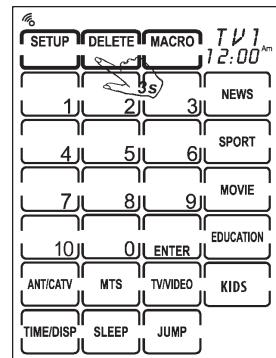
Press and hold the *DELETE* button on the Touch Screen for 3 seconds. Press each number button (2, 4, 6, 8) until it disappears. Use the arrow buttons on the Touch Screen to select **KEY** and then press the **OK** button.

1. Select the device that has the key that you want to erase.

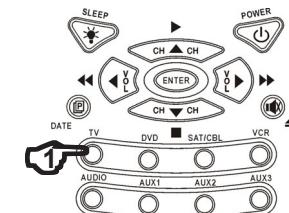
2. Select the key you want to erase. If you want to erase more keys, you may select them now.

3. When finished, press *OK* to confirm erasing the keys or press *EXIT* to cancel without erasing.

Then press the *EXIT* key to leave the *DELETE* Menu.

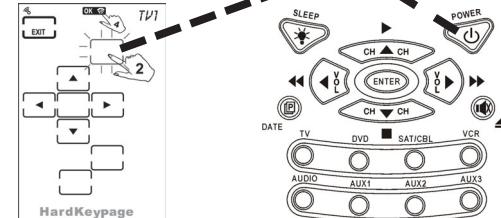


1. Use the device keys to select the device you want to program. Make sure the other remote control is pointed directly at the SUR-25's Learning eye. Keep them 2~4 inches apart. (5~10 cm)



Rubber Keys

The touch screen will display a set of buttons that correspond to the rubber keys on the bottom half of the SUR-25. Although these buttons appear on the touch screen, in programming them, you are actually programming the rubber buttons.



For example: The upper right button corresponds to the Power button as shown at right.

The up and down arrows represent the Channel up and down keys (or Play and Stop). The left and right arrows represent the Volume up and down buttons (or FF/Rew). The center button is the Enter button, and the lower right button is the Mute button. The bottom button corresponds to the device buttons and you can program it to send a command to turn on a device when you select it. You can program each rubber button by using this screen.

2. The Power button (upper right) should now be flashing on the touch screen.

3. Press and hold the Power button on the other remote control for at least 2 seconds.

4. Check to see whether ERROR or OK is displayed on the top of the SUR-25 Touch Screen. If ERROR appears, try again. The next programmable button on the Touch Screen will flash automatically. When all buttons on the current page are programmed, it will automatically switch to the next page.

You can directly select the next button to program by touching it or press the  **Page Key** to go to page 1 of the Softkeys.

5. SoftKey Page 1

The screen represents Page 1 of the Touch Screen buttons.

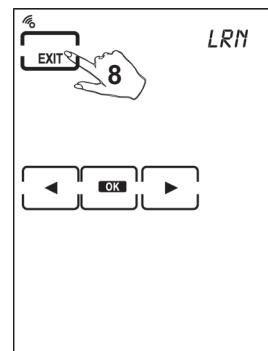
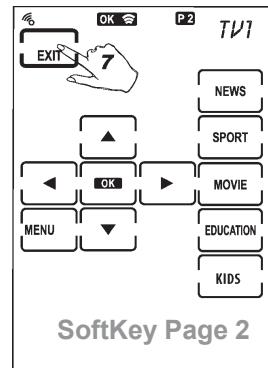
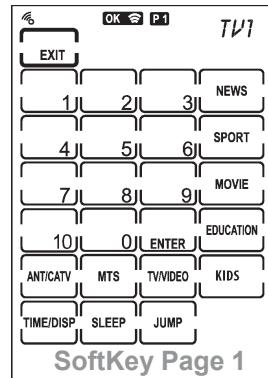
Repeat the above process for each button and press the  button when finished.

6. SoftKey Page 2

This screen represents the Page 2 Touch Screen buttons that will be available when using the device. Repeat the above process for each button.

7. When finished programming all the buttons you want to assign infrared codes to, **press the EXIT button.**

8. Press the **EXIT** button one more time to leave the **SETUP Menu**.

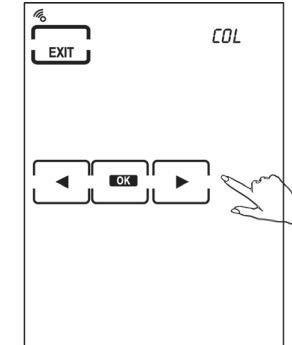


Collecting Unrecognized Infrared Codes

Use this procedure in the rare instance when the SUR-25 is unable to recognize the infrared signals from another remote control. (You only see the **ERROR** indicator when *Using the Learning Function*.)

Once collected you can use the Remote Connector (see *Appendix B – Accessories*) to upload the unrecognized codes to your personal computer and then email them to Sima for analysis. Sima can then update the system software and send you an updated version that will recognize the codes. Sima's service email address is: www.simacorp.com. All unrecognized codes should be sent to this address.

When you enter the Code Collection mode, the SUR-25 will immediately erase the previously stored unrecognized codes. If you have more than one remote that is not programmable, please upload the first remote's unrecognized codes and then gather the second remote's.



To collect unrecognized codes:

Press and hold the SETUP button on the Touch Screen.

Press each number button (2, 4, 6, 8) until it disappears. Use the arrow buttons on the Touch Screen to select **DBUG** and then press the **OK** button.

The rest of the collection procedure is the same as *Using the Learning Function*. When finished press the **EXIT** button.